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MARCH 22.

The President, Dr. LEIDY, in the chair.

Twenty-four persons present.

The following were ordered to be printed:—

A LIST OF THE CARICES OF PENNSYLVANIA.

BY THOS. C. PORTER.

All the species of *Carex* contained in this list are represented in the herbarium of Lafayette College by specimens from all the counties named, with the single exception of *C. Torreyi*. It will be observed, that, contrary to the common usage, the county is put first, the particular station next, and then, the name of the collector, in italics. When the latter is wanting, it indicates that the author himself is the collector.

The order of arrangement and most of the changes in nomenclature are taken from the *Synopsis of North American Carices*, by L. H. Bailey, Jr., published in the Proceedings of the American Academy of Arts and Sciences, 1886.

1. *Carex pauciflora*, Lightf.

SUSQUEHANNA, near Montrose, *Garber*, 1869; WAYNE, Torrey Lake, *Garber*, 1870. Very rare. The southern limit of the species.

2. *Carex subulata*, Michx.

SCHUYLKILL, Broad Mountain, in a bog beside the railroad, in company with the very rare and local *Juncus Smithii*, Engelm., 1866. According to Darlington's *Flora Cestrica*, it has also been found in Chester County.

3. *Carex folliculata*, L.

MONROE, Pocono; LACKAWANNA, Moosic Lake; LUZERNE, Carbondale, *Garber*; SCHUYLKILL; NORTHAMPTON, Pen Argyl; DEL-AWARE, Tinicum; LANCASTER, Smithville Swamp; CENTRE, Bear Meadows; VENANGO, East Sandy Creek, *Garber*. Common in the mountains, but rare elsewhere.

4. *Carex intumescens*, Rudge.

MONROE, Water Gap, *Knipe*; NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; BLAIR, *Boecking*; ARMSTRONG, *Knipe*.

5. *Carex Grayii*, Carey.

CLEARFIELD, *McMinn*, 1867; MERCER, *Garber*, 1868. DELAWARE, Tinicum, *A. H. Smith*, 1867. Very rare east of the Alleghenies.

6. *Carex lurida*, Wahl. (*C. lupulina*, Muhl.).

MONROE, Water Gap, *Knipe*; NORTHAMPTON; BUCKS, (Moyer's Cat.); DELAWARE, *Dr. George Smith*; CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN; HUNTINGDON.

7. *Carex lurida*, Wahl., var. *polystachya*, Bailey.

CLEARFIELD, *McMinn*; CRAWFORD, Conneaut Lake, *Garber*. Rare. Not known east of the Alleghenies.

8. *Carex oligosperma*, Michx.

CENTRE, in a bog four miles west of Pennsylvania Furnace; CARBON, borders of Round Pond, Aug., 1867. Very rare. The southern limit of the species.

9. *Carex rostrata*, Withering.

MONROE, Tobyhanna Mills and Tunkhannock Creek; ERIE, Presque Isle, *Garber*.

10. *Carex rostrata*, Withering, var. *utriculata*, Bailey.

MONROE, *Dr. Traill Green*, *Moyer*; SULLIVAN, *C. E. Smith*; TIOGA, *Garber*; CENTRE, Bear Meadows; ELK, *McMinn*.

11. *Carex monile*, Tuckerman.

BUCKS, Sellersville, *Fretz*; CHESTER, (Fl. Cestr.); HUNTINGDON, Barrens, *Lowrie*; ELK, *McMinn*; CRAWFORD, *Garber*; MERCER, Middlesex, *Garber*.

12. *Carex Tuckermani*, Boott.

MONROE, Pocono; HUNTINGDON; CLEARFIELD, *McMinn*; MERCER, *Garber*. Rare.

13. *Carex bullata*, Schkuhr.

LANCASTER, Smithville Swamp; LYCOMING, Limekiln Swamp, *McMinn*. Rare and local.

14. *Carex retrorsa*, Schweinitz.

HUNTINGDON, near Pennsylvania Furnace, *Boecking*, 1870. The only station known in the State. The southern limit of the species.

15. *Carex tentaculata*, Muhl.

MONROE; NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; CENTRE; BLAIR, *Boecking*; CLEARFIELD, *McMinn*; CLARION, *Garber*. Common and abundant.

16. *Carex tentaculata*, Muhl., var. *gracilis*, Boott.

WAYNE, *Garber*; MONROE; HUNTINGDON; CLEARFIELD, *McMinn*.

17. *Carex Schweinitzii*, Dewey.

MONROE, Pocono, *Schweinitz*. The specimen is from Schweinitz himself, but it does not seem to have been collected in Pennsylvania since his day.

18. *Carex hystrioides*, Muhl.

MONROE, Water Gap, *Knipe*; NORTHAMPTON, Easton; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN; HUNTINGDON.

19. *Carex Pseudo-Cyperus*, L. ERIE, Presque Isle, *Garber*.

20. *Carex Pseudo-Cyperus*, L, var. *comosa*, W. Boott.

WAYNE, *Garber*; PIKE, *Fiot*; NORTHAMPTON, near Easton; BUCKS, *Diffenbaugh*, (Moyer's Cat.); LANCASTER; HUNTINGDON, Alexandria; CRAWFORD, Conneaut Lake, *Garber*; ERIE, Presque Isle, *Garber*.

21. *Carex stenolepis*, Torrey.

HUNTINGDON, near Alexandria; GREENE, Greensboro, *Garber*. Very rare and local.

23. *Carex squarrosa*, L.

BUCKS, *Diffenbaugh*; PHILADELPHIA, *Diffenbaugh*; DELAWARE, *Dr. G. Smith*; CHESTER, (Fl. Cestr.), LANCASTER; HUNTINGDON; CLEARFIELD, *McMinn*; MERCER, *Garber*; ALLEGHENY, *Knipe*.

23. *Carex Shortiana*, Dewey.

FRANKLIN, in meadows around Mercersburg. The only station known in the State. Its northern and eastern limit.

24. *Carex scabrata*, Schweinitz.

WAYNE, *Garber*; CARBON; NORTHAMPTON; BUCKS, (Moyer's Cat.); Philadelphia, on the Wissahickon, *C. E. Smith* and *Dr. Jos. Leidy*; LANCASTER; FRANKLIN; SULLIVAN, *C. E. Smith*; BLAIR, *Lowrie*. Along shaded rivulets, especially in the mountains. Not common.

25. *Carex vestita*, Willd.

NORTHAMPTON, Pen Argyl; BUCKS, Bristol, *Diffenbaugh*, (Moyer's Cat.); LANCASTER, Smithville Swamp; CLEARFIELD, *McMinn*; CAMERON, *McMinn*. Rare.

26. *Carex filiformis*, L.

WAYNE, *Garber*; MONROE, Water Gap, *Knipe*; ERIE, Presque Isle, *Garber*, *Guttenburg*. Rare.

27. *Carex filiformis*, L., var. *latifolia*, Boeckeler, (*C. lanuginosa*, Michx.)

MONROE, Water Gap, *Knipe*; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); BERKS; LANCASTER; FRANKLIN; ELK, *McMinn*.

28. *Carex trichocarpa*, Muhl.

MONROE, Water Gap, *Knipe*; BUCKS, (Moyer's Cat.); LANCASTER; FRANKLIN; CENTRE, *Boecking*; ELK, *McMinn*.

29. *Carex riparia*, W. Curtis. (*C. lacustris*, Willd.)

WAYNE, *Garber*; BUCKS, *Garber*; DELAWARE, Tinicum, *A. H. Smith*; TIOGA, *Garber*; ELK, *McMinn*. Rare.

30. *Carex Buxbaumii*, Wahl.

LEHIGH, near Mountainville; BUCKS; LANCASTER; FRANKLIN. Rare.

31. *Carex vulgaris*, Fries.

MONROE, Water Gap, *Knipe*; CENTRE, *McMinn*. Very rare. Its southern limit.

32. *Carex aquatilis*, Wahl.

ERIE, Presque Isle, *Guttenberg*.

33. *Carex stricta*, Lamarck.

WAYNE, *Garber*; MONROE; NORTHAMPTON; CHESTER, (Fl. Cestr.); BERKS, *Garber*; LANCASTER; FRANKLIN; ELK, *McMinn*. Very common and variable; growing in marshy places in tussocks,

34. *Carex aperta*, Boott.

BUCKS, *Moyer, Fretz*; LYCOMING, *A. H. Smith, McMinn*. Rare.

35. *Carex torta*, Boott.

NORTHAMPTON, *Fiot*; BUCKS, Nockamixon Rocks; CHESTER, *Canby*; FRANKLIN; PERRY, *Garber*; SULLIVAN, on the Loyalsock, *C. E. Smith*; HUNTINGDON; BLAIR, Burgoon's Gap; CLEARFIELD, Sandy Lick, *McMinn*; ELK, *McMinn*. Along the margins and often in the beds of rivulets, in shaded, rocky ravines. Sometimes the fertile spikes are much crowded and much branched (var. *composita*, Porter), giving the plant a singular appearance, as if, to use the phrase of Mr. Canby, it had "run mad."

36. *Carex prasina*, Wahl. (*C. miliacea*, Muhl.)

NORTHAMPTON; BUCKS, (Moyer's Cat.); PHILADELPHIA, *Dr. J. Leidy*; CHESTER, (Fl. Cestr.); BERKS, *Dr. J. P. Hiester*; LANCASTER; SULLIVAN, *A. H. Smith*; ELK, *McMinn*.

37. *Carex crinita*, Lamarck.

MONROE; NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; ELK, *McMinn*.

38. *Carex crinita*, Lam., var. *gynandra*, Schw. and Torr.

WAYNE, *Garber*; LACKAWANNA; LUZERNE, *Garber*; MONROE, Pocono; SCHUYLKILL; NORTHAMPTON, Seidersville, *R. G. Bechdolt*; CHESTER, Landenberg, *Canby*; TIOGA, *Garber*; CLEARFIELD,

McMinn; ARMSTRONG, *Garber*.—Common in the mountains, but rare elsewhere.

39. *Carex Magellanica*, Lamarek. (*C. irrigua*, Smith.)

MONROE, on the Tunkhannock, *Dr. Traill Green*, June, 1861. Very rare. Its southern limit. Since found (in 1886) in the same neighborhood, by Prof. Dudley, who writes, "The unusually obtuse perigynia more resemble those of the Fuegian specimens figured by Boott than those of any other specimens or figures I have access to."

40. *Carex limosa*, L.

WAYNE, *Garber*; MONROE, Pocono; TIOGA, *Garber*; BUCKS, Sellersville, *Moyer*.—Rare. Chiefly in sphagnous bogs on the mountain-plateaus.

41. *Carex virescens*, Muhl.

MONROE, *Knipe*; NORTHAMPTON, around Easton; BUCKS, *Fretz*; PHILADELPHIA, *Diffenbaugh*; DELAWARE, *A. H. Smith*; MONTGOMERY, *Diffenbaugh*; LANCASTER; FRANKLIN.—Common.

42. *Carex triceps*, Michx.

NORTHAMPTON; BUCKS; PHILADELPHIA; DELAWARE, *Tinicum*; *A. H. Smith*; CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN; LYCOMING, *A. H. Smith*; TIOGA, *Garber*; BLAIR, *Boecking*. A common and variable species.

43. *Carex Smithii*, Porter. (*Olney, Exsicc., fasc. 1, no. 28.*)

Glabrous, except the sheaths of the narrowly-linear leaves; culms slender, erect, 1 to 2 feet high; fertile spikes 2 to 4, short-cylindrical, nearly sessile, approximate; perigynia globular, contracted to a manifest point, crowded but not imbricated, smooth, a little longer than the ovate, brownish, mucronate scales; akenes broadly-pyriform, with very short, abrupt, inflexed tips.—CHESTER; DELAWARE, *Tinicum* and *Pusey's Woods*, *A. H. Smith*.

In shape and appearance, the spikes, perigynia and akenes, and the olive-green hue of the plant, at first sight, suggest *C. granularis* rather than *C. triceps*.—It is named in honor of Mr. Aubrey H. Smith of Philadelphia. Just beyond our borders, Mr. Canby reports it as "very common in fields and woodlands around Wilmington, Delaware," and specimens from Gloucester, N. J. were sent me by the late Chas. F. Parker. It is certainly a well-marked variety, if not a distinct species.

44. *Carex longirostris*, Torrey,

LYCOMING, near Williamsport, *McMinn*; MONROE, Water Gap, *Knipe*; BUCKS, Nockamixon Rocks, *Garber*. Rare and local. Its southern limit.

45. *Carex aretata*, Boott.

MONROE, Pocono, *Dr. Traill Green*; SULLIVAN, *Chas. E. Smith*; BLAIR, *Boecking*; ELK, *McMinn*.—Rare. Its southern limit.

46. *Carex debilis*, Michx.

MONROE, Pocono; NORTHAMPTON; BUCKS, (Moyer's Cat.); DELAWARE, *A. H. Smith*; CHESTER, (Fl. Cestr.); LANCASTER, Smithville Swamp; CENTRE, Bear Meadows, *Lowrie*; HUNTINGDON; BLAIR, *Boecking*; CLEARFIELD, *McMinn*; MERCER, *Garber*.

47. *Carex debilis*, Michx., var. *pubera*, Gray.

CENTRE, Bear Meadows, *Lowrie*; LANCASTER, Smithville Swamp. Very rare and local.

48. *Carex aestivalis*, M. A. Curtis.

CHESTER, (Fl. Cestr.); LACKAWANNA, Carbondale, *Garber*; SULLIVAN, *C. E. Smith*; TIOGA, *Garber*.—Rare.

49. *Carex gracillima*, Schweinitz.

LEHIGH, *Garber*; NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN; BLAIR, *Boecking*. Common.

50. *Carex Davisii*, Schw. & Torr.

NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN, Mercersburg.—Rare.

51. *Carex grisea*, Wahl.

MONROE, Water Gap, *Knipe*; NORTHAMPTON, Easton; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN; BLAIR; ALLEGHENY, *Knipe*.—Common.

52. *Carex glaucoidea*, Tuckerman.

NORTHAMPTON, Easton, Pen Argyl, Bethlehem, *Fiot*; BUCKS, Nockamixon Rocks, marshes near Quakertown; DELAWARE, Pusey's Woods, *A. H. Smith*; LANCASTER; LYCOMING, *McMinn*.—I first met with this species in a swamp near Smithville, Lancaster County, in 1863. It struck me at once as new, and specimens, name and distinctive characters were sent to Col. Olney, who informed me that it had also been discovered near Amherst, Mass., and that Prof. Tuckerman had just described it and his description would soon appear in the Proceedings of the American Academy of Arts and Sciences. Since then, it has been found at a number of stations in Eastern Pennsylvania and the neighboring States. In 1880, I collected it on the summit of Roane Mtn., N. C.

53. *Carex granularis*, Muhl.

NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.);

LANCASTER; FRANKLIN, Mercersburg.—Common.

54. *Carex granularis*, Muhl., var. *Haleana*, (*C. Haleana*, Olney. Exsicc. fasc. iii, no. 14.)

Glabrous; leaves broad and very glaucous; culms and peduncles slender and weak; fertile spikes much smaller and shorter; perigynia less than half the usual size, rather narrowly ovoid, not globular.

NORTHAMPTON, near Easton; LANCASTER, Smithville Swamp; ALLEGHENY, *Knipe*.—Outside of our limits, it has been collected at Madison, Wisc., by *T. J. Hale*, and in Montgomery County, Va., by *Dr. Joseph Leidy*.

55. *Carex flava*, L.

CRAWFORD, Conneaut Lake, *Garber*.—The only station known.

56. *Carex Oederi*, Retz.

ERIE, Presque Isle, *Garber*.—The only station known.

57. *Carex pallescens*, L.

WAYNE, *Garber*; LACKAWANNA, Carbondale, *Garber*; CLINTON, *McMinn*.—Rare. The southern limit of the species.

58. *Carex Torreyi*, Tuckerman.

Specimens of this rare species are reported as existing in European herbaria, collected by Schweinitz near Bethlehem, Penna., and named by him *C. abbreviata*. This may be correct, but among his plants, now in possession of the Philadelphia Academy, there is a sheet, at the top of which he has written "*Carex lanosa—abbreviata*," and at the bottom, "Bethlehem." The eight or ten specimens on the sheet, fastened down with paper-strips, are all *C. vestita*, Willd. Although sought for in his old haunts, *C. Torreyi* has not yet been rediscovered.

59. *Carex conoidea*, Schkuhr.

MONROE, Water Gap, *Knipe*; NORTHAMPTON; BUCKS; DELAWARE, *Canby*; BERKS, near Reading; LANCASTER; FRANKLIN; LYCOMING, *McMinn*.

60. *Carex oligocarpa*, Schkuhr.

NORTHAMPTON, Easton; BUCKS, Sellersville, *Fretz*; LANCASTER, on the Conestoga.—Rare.

The specimens of *Dr. Fretz* exactly agree with those of *Dr. Sartwell* from Penn Yan, W. N. York, and I cannot see in them any likeness to the southern narrow-leaved variety of *C. grisea*, to which they have been referred.

61. *Carex Hitchcockiana*, Dewey.

NORTHAMPTON, Easton; LANCASTER; ALLEGHENY, *Knipe*. Rare.

62 *Carex laxiflora*, Lamarck.

BUCKS, (Moyer's Cat.); LANCASTER; BLAIR, *Lowrie*.

63. *Carex laxiflora*, Lam., var. *styloflexa*, Boott.

LEHIGH, *Garber*; NORTHAMPTON, Bethlehem; BUCKS, *Garber*; BERKS, Neversink Mtn.; DELAWARE, Tinicum, *A. H. Smith*.—Rare.

64. *Carex laxiflora*, Lam., var. *patulifolia*, Carey.

MONROE, Water Gap, *Knipe*; NORTHAMPTON; LANCASTER; HUNTINGDON; ALLEGHENY, *Knipe*.

65. *Carex laxiflora*, Lam., var. *intermedia*, Boott.

NORTHAMPTON; BUCKS, (Moyer's Cat.); FRANKLIN, LUZERNE, *Garber*; LYCOMING, *McMinn*; MERCER, *Garber*.

66. *Carex laxiflora*, Lam., var. *striatula*, Carey.

NORTHAMPTON; BUCKS, (Moyer's Cat.); DELAWARE, *Diffenbaugh*; LANCASTER.

67. *Carex laxiflora*, Lam., var. *latifolia*, Boott.

BUCKS, Nockamixon Rocks; LANCASTER; ALLEGHENY, *Garber*.

68. *Carex retrocurva*, Dewey.

NORTHAMPTON; BUCKS, *Moyer*; LANCASTER; FRANKLIN; CENTRE, *Boecking*.—Rare.

69. *Carex digitalis*, Willd.

NORTHAMPTON; BUCKS, (Moyer's Cat.); DELAWARE, *Dr. G. Smith*; CHESTER, (Fl. Cestr.); LANCASTER; TIOGA, *Garber*; CLEARFIELD and ELK, *McMinn*.

70. *Carex platyphylla*, Carey.

MONROE, Water Gap, *Knipe*; BUCKS, Nockamixon Rocks; CHESTER, Black Rock Tunnel, *Diffenbaugh*; LANCASTER; SULLIVAN, *C. E. Smith*; CENTRE, *Boecking*; ALLEGHENY, *Knipe*. Rare.

The *C. platyphylla* of Darlington's Flora Cestricea is probably *C. laxiflora*, Lam.

71. *Carex Careyana*, Torrey.

ALLEGHENY, *Knipe*.—From one station only.

72. *Carex plantaginea*, Lamarck.

BUCKS, Nockamixon Rocks; CHESTER, near Phoenixville, *Martindale*; SULLIVAN, on the Loyalsock, *C. E. Smith*; BLAIR, *Lowrie*; CLEARFIELD, *McMinn*; ALLEGHENY, *Knipe*.—Rare and local.

73. *Carex polymorpha*, Muhl.

MONROE, Pocono; BUCKS, (Moyer's Cat.); LANCASTER, Smithville Swamp; CLINTON, *McMinn*.—Rare and local.

74. *Carex tetanica*, Schkuhr.

MONROE, Water Gap, *Knipe*; NORTHAMPTON, Easton; BUCKS,

(Moyer's Cat.); LANCASTER; FRANKLIN.

75. *Carex tetanica*, Schkuhr, var. *Canbyi*. (*C. panicea*, L., var. *Canbyi*, Olney, *Exsicc. fasc.* ii, nos. 24 and 25.)

Taller, erect and more robust than the type. The fertile spikes and perigynia larger. In the last edition of Gray's Manual, it is placed under *C. panicea*, L., but Mr Bailey makes it identical with *C. Meadii*, Dew., from which it differs in its blunt scales and habit of growth.

76. *Carex tetanica*, Schkuhr, var. *Carteri*.

LANCASTER, New Texas, *J. J. Carter*, June, 1862.—Glabrous, 15 to 20 inches high; staminate spikes on shorter stalks; pistillate spikes 2 to 3, oblong, erect, all staminate at the apex; lower bract equalling the culm; perigynia ovoid, obtuse, straight or straightly curved above, not pointed, twice the length of the blunt scales.—Named for the discoverer.

77. *Carex Meadii*, Dewey.

BUCKS, *Dr. I. S. Moyer*.—Very rare. It exactly accords with Western specimens received from Dr. Mead and Mr. Bebb.

78. *Carex Crawei*, Dewey.

CLINTON, *McMinn*.—The only station known.

79. *Carex aurea*, Nutt., var. *androgyna*, Olney.

ERIE, Presque Isle, *Garber*.—The only station known.

80. *Carex eburnea*, Boott.

NORTHAMPTON, near Easton.—On shaded limestone rocks; in dense mats, and abundant. The only station known.

81. *Carex pedunculata*, Muhl.

BUCKS, (Moyer's Cat.); BERKS, *Dr. J. P. Hiester*; LANCASTER; FRANKLIN; SULLIVAN, *C. E. Smith*; JEFFERSON, *McMinn*; ERIE, Presque Isle, *Guttenberg*.—Rare.

82. *Carex Pennsylvanica*, Lamarck.

NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; CLEARFIELD, Sandy Ridge, *McMinn*.—Far less common than the next species.—In the specimens of Mr. McMinn, the leaves are from 2½ to 3 lines wide, and the scales and perigynia deep chestnut-brown.

83. *Carex varia*, Muhl.

MONROE; BUCKS, (Moyer's Cat.); BERKS, *Diffenbaugh*; SCHUYLKILL; LANCASTER; FRANKLIN; SULLIVAN, *C. E. Smith*; BLAIR, *Lowrie*; CLEARFIELD, *McMinn*.

84. *Carex Emmonsii*, Dewey.

NORTHAMPTON; BUCKS, (Moyer's Cat.); PHILADELPHIA; LAN-

CASTER; ALLEGHENY, *Knipe*.

85. *Carex nigro-marginata*, Schweinitz.

NORTHAMPTON, Seidersville, *R. G. Bechdolt*; BUCKS, *J. A. and H. F. Ruth*.—Rare and local.

86. *Carex umbellata*, Schkuhr.

NORTHAMPTON; BUCKS; CARBON, *Garber*; LYCOMING, *A. H. Smith*; PHILADELPHIA, Manayunk, *C. E. Smith*; LANCASTER, Chickies.—On dry rocks and hillsides. Not common.

87. *Carex pubescens*, Muhl.

NORTHAMPTON; BUCKS, (*Moyer's Cat.*); DELAWARE, *Dr. G. Smith*; CHESTER, (*Fl. Cestr.*); BERKS, *Dr. J. P. Hiester*; LANCASTER; CLEARFIELD and ELK, *McMinn*.

88. *Carex Willdenovii*, Schkuhr.

NORTHAMPTON; BUCKS, Nockamixon Rocks; LANCASTER; LYCOMING, *A. H. Smith*.—Rare.

89. *Carex Steudelii*, Kunth.

LANCASTER, on the Conestoga; DAUPHIN, near Harrisburg, *Garber*; ALLEGHENY, *Knipe*.—Rare.

90. *Carex polytrichoides*, Muhl.

MONROE, Water Gap, *Knipe*; NORTHAMPTON; CHESTER, (*Fl. Cestr.*); LANCASTER; FRANKLIN; SULLIVAN, *C. E. Smith*; HUNTINGDON.—Common, in wet meadows.

91. *Carex chordorhiza*, Ehrhart.

TIOGA, Marsh Farm, near Wellsborough, *Garber*, 1869.—Very rare. The only station known. Its southern limit.

92. *Carex conjuncta*, Boott.

PHILADELPHIA, on the Schuylkill, *Canby*.—No other station known.

93. *Carex stipata*, Muhl.

WAYNE, *Garber*; NORTHAMPTON; BUCKS, (*Moyer's Cat.*); PHILADELPHIA, *Diffenbaugh*; CHESTER, (*Fl. Cestr.*); LANCASTER; SULLIVAN, *C. E. Smith*; CENTRE, *Boecking*; HUNTINGDON; ALLEGHENY, *Knipe*.—One of our most common and abundant species.

94. *Carex teretiuscula*, Gooden.

TIOGA and CRAWFORD, *Garber*.—Rare.

95. *Carex teretiuscula*, Gooden., *var. ramosa*, Boott.

LANCASTER, Dillerville Swamp; CENTRE, *Boecking*.—Rare.

96. *Carex vulpinoidea*, Michx.

NORTHAMPTON, BUCKS; LANCASTER; FRANKLIN; TIOGA, *Garber*; HUNTINGDON; BLAIR.—Exceedingly common and very variable.

97. *Carex alopecoidea*, Tuckerman.

CLEARFIELD and ELK, *McMinn*, 1868.—Very rare.

98. *Carex disticha*, Hudson.

ERIE, Presque Isle, *Garber*.—No other station known.

99. *Carex tenella*, Schkuhr.

TROGA, *Garber*; ELK, *McMinn*.—Probably not infrequent in high mountain-bogs, along our northern border.

100. *Carex rosea*, Schkuhr.

MONROE, *Knipe*; NORTHAMPTON, Easton; LANCASTER; FRANKLIN.

101. *Carex rosea*, Schk., *var. radiata*, Dewey.

WAYNE, *Garber*; MONROE, Water Gap, *Knipe*; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN; CLEARFIELD, *McMinn*.—Common.

102. *Carex rosea*, Schk., *var. retroflexa*, Torrey.

WAYNE, *Garber*; NORTHAMPTON, Easton; LANCASTER.—Rare.

103. *Carex sparganioides*, Muhl.

NORTHAMPTON; BUCKS, (Moyer's Cat.); PHILADELPHIA, *Diffenbaugh*; LANCASTER; FRANKLIN; ALLEGHENY, *Knipe*.

104. *Carex Muhlenbergii*, Schkuhr.

MONROE, Water Gap, *Knipe*; NORTHAMPTON, Easton, Seidersville, *Bechdolt*; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); FRANKLIN; HUNTINGDON, *Lowrie*; LYCOMING and CLEARFIELD, *McMinn*; ALLEGHENY, *Knipe*.

105. *Carex Muhlenbergii*, Schk., *var. enervis*, Boott.

PHILADELPHIA, Woodlands, *Canby*.—Very rare.

106. *Carex cephalophora*, Muhl.

MONROE, Water Gap, *Knipe*; NORTHAMPTON; BUCKS; PHILADELPHIA, *Leidy*; LANCASTER; FRANKLIN; CLEARFIELD and ELK, *McMinn*.

107. *Carex cephalophora*, Muhl., *var. angustifolia*, Boott.

ERIE, Presque Isle, *Garber*.

108. *Carex echinata*, Murray, (*C. stellulata*, Gooden.), *var. conferta*, Bailey.

WAYNE, *Garber*; SCHUYLKILL, Broad Mtn.; LYCOMING, *McMinn*; LANCASTER, New Texas, *J. J. Carter*.

109. *Carex echinata*, Murr., *var. microstachys*, Boeckeler.

MONROE, Water Gap; *Knipe*; NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); BERKS, near Reading; LANCASTER.

110. *Carex canescens*, L.

WAYNE, *Garber*; MONROE, Pocono; SCHUYLKILL; SULLIVAN,

Lake Mtn., *A. H. Smith*; JEFFERSON, *McMinn*.—Peat-bogs, in the mountains.

111. *Carex canescens*, L., *var. alpicola*, Wahl.

MONROE, Pocono, *Dr. Traill Green*; WAYNE, *Garber*; CENTRE, Bear meadows, *Lowrie*.—Rarer than the type.

112. *Carex trisperma*, Dewey.

WAYNE, *Garber*; MONROE, Water Gap, *Knipe*; SCHUYLKILL; SULLIVAN, *C. E. Smith*.—Frequent and abundant in mountain-bogs.

113. *Carex bromoides*, Schkuhr.

MONROE, Tannersville, *Garber*; NORTHAMPTON; BUCKS, *Moyer*; CHESTER, (Fl. Cestr.); FRANKLIN; SULLIVAN, *A. H. Smith*; HUNTINGDON; JEFFERSON, *McMinn*.

114. *Carex Deweyana*, Schweinitz.

SULLIVAN, *C. E.* and *A. H. Smith*; ERIE, Presque Isle, *Garber*. Very rare.

115. *Carex siccata*, Dewey.

NORTHAMPTON, Bethlehem, *Fiot*.—The only station known.

116. *Carex tribuloides*, Wahl. (*C. lagopodioides*, Schk.);

NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; TIoga, *Garber*; HUNTINGDON; BLAIR, *Lowrie*.—Common.

117. *Carex tribuloides*, Wahl., *var. cristata*, Bailey.

NORTHAMPTON; LANCASTER; LYCOMING, *McMinn*; HUNTINGDON. Scarcer than the type.

118. *Carex scoparia*, Schkuhr.

MONROE, Pocono; BUCKS, (Moyer's Cat.); LANCASTER; BLAIR, *Boecking*; ALLEGHENY, *Knipe*.—Very common.

119. *Carex adusta*, Boott.

MONROE, Pocono; LACKAWANNA, Carbondale, *Garber*; NORTHAMPTON, Easton; BUCKS, *Moyer*; VENANGO, East Sandy Creek, *Garber*.—Rare.

120. *Carex straminea*, Schkuhr.

NORTHAMPTON; BUCKS, (Moyer's Cat.); CHESTER, (Fl. Cestr.); LANCASTER; FRANKLIN; BLAIR; CLEARFIELD, *McMinn*.—Very variable.

121. *Carex straminea*, Schk., *var. aperta*, Boott.

LYCOMING, *A. H. Smith*; ELK, *McMinn*.—Rare.

122. *Carex alata*, Torrey.

MONROE, Pocono Summit, on the D. and L. R. R.—Not known elsewhere.

Two more species have been assigned to our flora, but they lack confirmation.

Mr. Bailey, in his Synopsis, makes the range of *C. gynocrates* extend into Pennsylvania, without mention of any station or collector. It may be looked for in the northern tier of counties along the N. York line.

Muhlenberg, in his *Descriptio uberior Graminum* etc., p. 265. under *C. lagopus?*, which is *C. Fraseri*, Andrews, adds these words, "*Habitat in Tyger-Valley Pennsylvaniae, unde siccam habeo et vivam.*" Kin, the German gardener who collected in S. W. Pennsylvania, brought it home and his label reads thus, "Deigher Walli in der Wilternus." Dr. Gray has shrewdly conjectured that by "Deigher Walli," or Tyger Valley, is meant Tygart's Valley, which lies further south, in Virginia. When the late Dr. Garber visited Fayette and Greene counties, in the service of the College, he made, by my direction, particular inquiry after a valley of that name, but no one had heard of it. Yet he discovered there, on our side of Mason and Dixon's line, *Aristolochia Siphon*, and, a little further north, in the same range, occurs *Pyrolaria oleifera*, so that it is not at all unlikely, that, some day, this rare and most singular *Carex* will be found lurking in one of the lateral valleys or ravines along the western slope of Chestnut Hill.*

The list above given comprises 98 species and 24 varieties,—a goodly number, which may be increased somewhat. The sending to him of any new or rare species, or specimens of those more common, from the counties not thoroughly explored, will be accounted by the author as a special favor, and duly acknowledged.

The following European species have been collected by Mr. Isaac Burk on the ballast-grounds at Philadelphia—*C. Davalliana*, Lam., *C. distans*, L.; *C. hirta*, L. and *C. ornithopoda*, With.

Easton, Penna., March 4th., 1887.

* A box containing the Carices of Muhlenberg has just been discovered in the Herbarium of the Academy, Philadelphia, and the label attached to the specimens of Kin's collection places Tyger Valley "*prope amnem Kenahway.*"